

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

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GENERAL INFORMATION:

Name: Commonwealth Aluminum Lewisport, LLC
Address: P. O. Box 480, 1372 State Route 1957, Lewisport, KY 42351-0480
Date application received: August 14, 2008
SIC/Source description: 3341 / Secondary Aluminum Production
EIS #: 21-091-00010
AI#: 1622
APE#: 20080002
Permit number: V-08-037

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input checked="" type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input checked="" type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR <input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052, 1(14)(b)		

MISCELLANEOUS:

☐ Acid rain source
☐ Source subject to 112(r)
☐ Source applied for federally enforceable emissions cap
☐ Source provided terms for alternative operating scenarios
☒ Source subject to a MACT standard
☐ Source requested case-by-case 112(g) or (j) determination
☐ Application proposes new control technology
☒ Certified by responsible official
☒ Diagrams or drawings included
☐ Confidential business information (CBI) submitted in application
☐ Pollution Prevention Measures
☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM ₁₀	289.6	1159.58
SO ₂	18.2	48
NO _x	168.6	591.14
CO	200	612.29
VOC	367.99	1417.57
LEAD	0.498	0.674
Single HAPs (HCL)	24.57	66.73
Source wide HAPs	36.23	95.58

SOURCE PROCESS DESCRIPTION:

Commonwealth Aluminum, Lewisport, Inc. (CALI) owns and operates an aluminum rolling mill facility. CALI manufactures aluminum coil from purchased aluminum sows, as well as purchased and in-plant generated scrap (including customer returns, both painted and bare scrap). Clean incoming material is generally converted to molten aluminum in one of eight melt furnaces in the South Casthouse, degassed and fluxed to remove entrapped hydrogen and metallic impurities, and cast into ingots. Purchased dirty scrap is received at the scrap metal preparation area, shredded, dried, and delacquered, and transferred to one of the melt furnaces in the North Casthouse. Molten aluminum from the North Casthouse melters is transferred to one of four holding furnaces, fluxed in separate degas/fluxing units, and then cast into ingots. Molten aluminum from the South Casthouse melters is transferred to one of the seven holding furnaces, fluxed in the furnace using Rotary Gaseous Flux Injectors, prior to being cast into ingots. Process description is explained in more details in the Statement of Basis.

EMISSION AND OPERATING CAPS DESCRIPTION:

Due to the Secondary Aluminum MACT, it has been possible for Commonwealth Aluminum to remove some self-imposed limits.

Particulate emissions shall not exceed the following self-imposed limits:

AB (SCH-12): 2.57 pounds per hour and 1.69 tons per year.

99 (SCH-12): 2.57 pounds per hour and 1.69 tons per year

Emission point 44: 5.0 pounds per hour and 20.0 tons per year.

Emission point 45: 5.0 pounds per hour and 20.0 tons per year.

Emission point 46: 8.0 pounds per hour and 32.0 tons per year.

VOCs emission from 104 (BCF-4): 651 Tension Leveler Fugitives shall not exceed 30 tpy (self-imposed Synthetic Minor limit).

OPERATIONAL FLEXIBILITY:

NONE